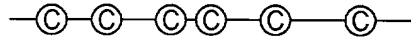
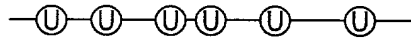


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Denatured (single-stranded)
Unmethylated Genomic DNA

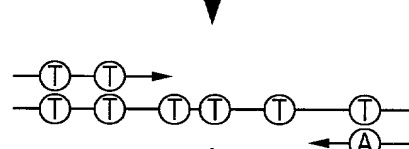
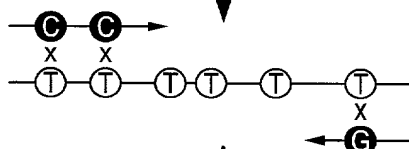
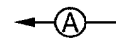
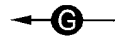
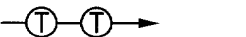
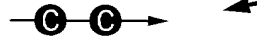


Sodium Bisulfite Conversion

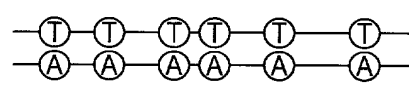


Methylated MSP
PCR Reaction

Unmethylated MSP
PCR Reaction



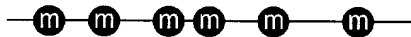
No PCR Product



Denatured (single-stranded)
Methylated Genomic DNA

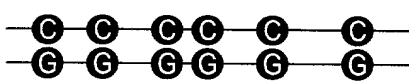
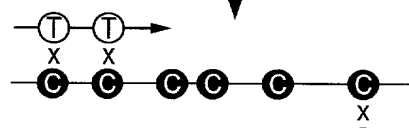
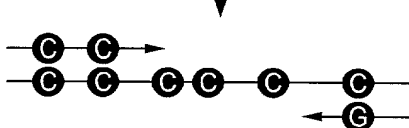
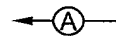
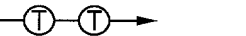


Sodium Bisulfite Conversion



Methylated MSP
PCR Reaction

Unmethylated MSP
PCR Reaction

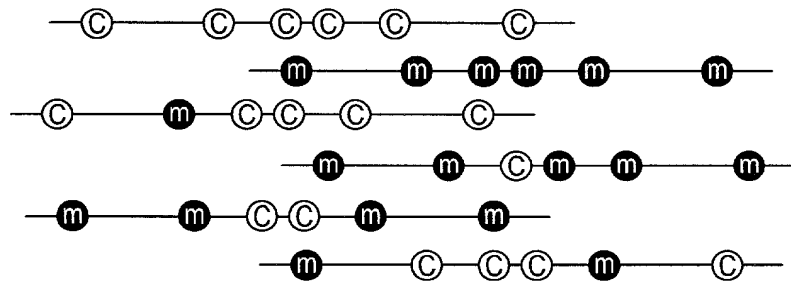


No PCR Product

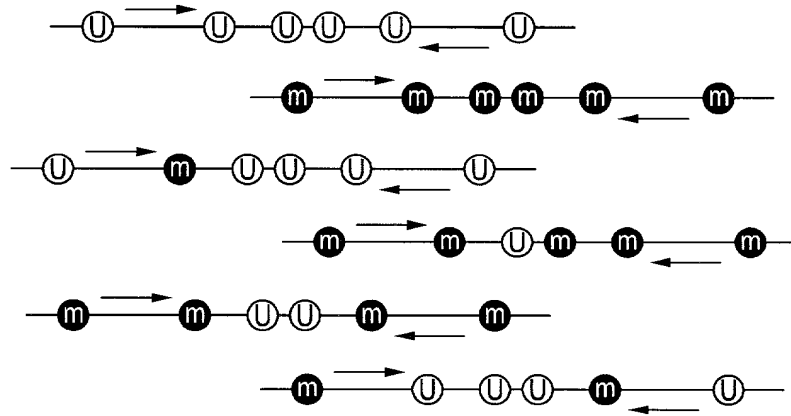
Fig. 1

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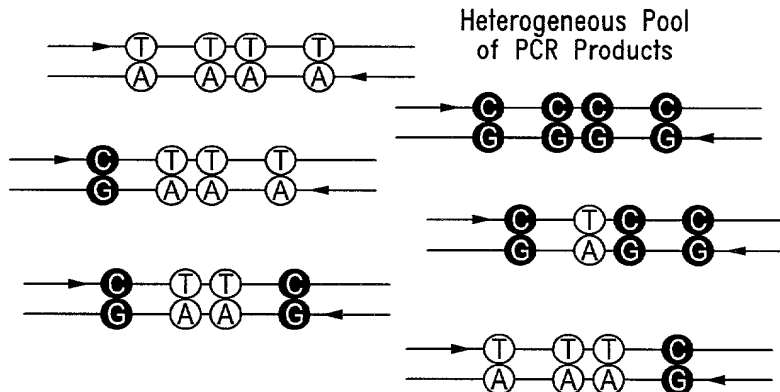
Denatured (single-stranded) Genomic DNA
of Mixed Methylation Status



Sodium Bisulfite Conversion



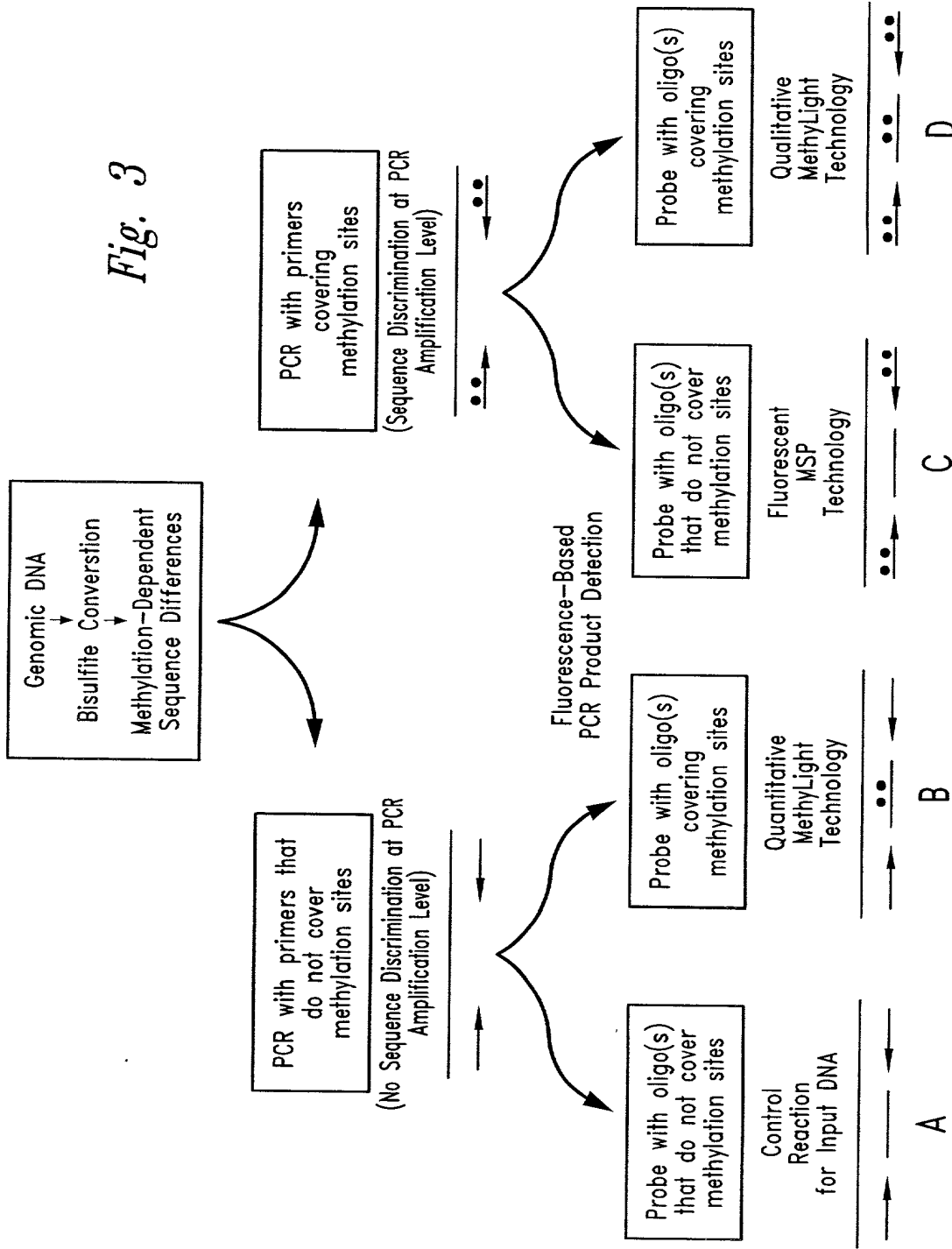
PCR



Heterogeneous Pool
of PCR Products

Fig. 2

Fig. 3



1. The DNA sample is amplified using a pair of primers that flank the CpG site of interest. The primers are designed such that the probe will bind to the amplified DNA.

MethyLight Technology

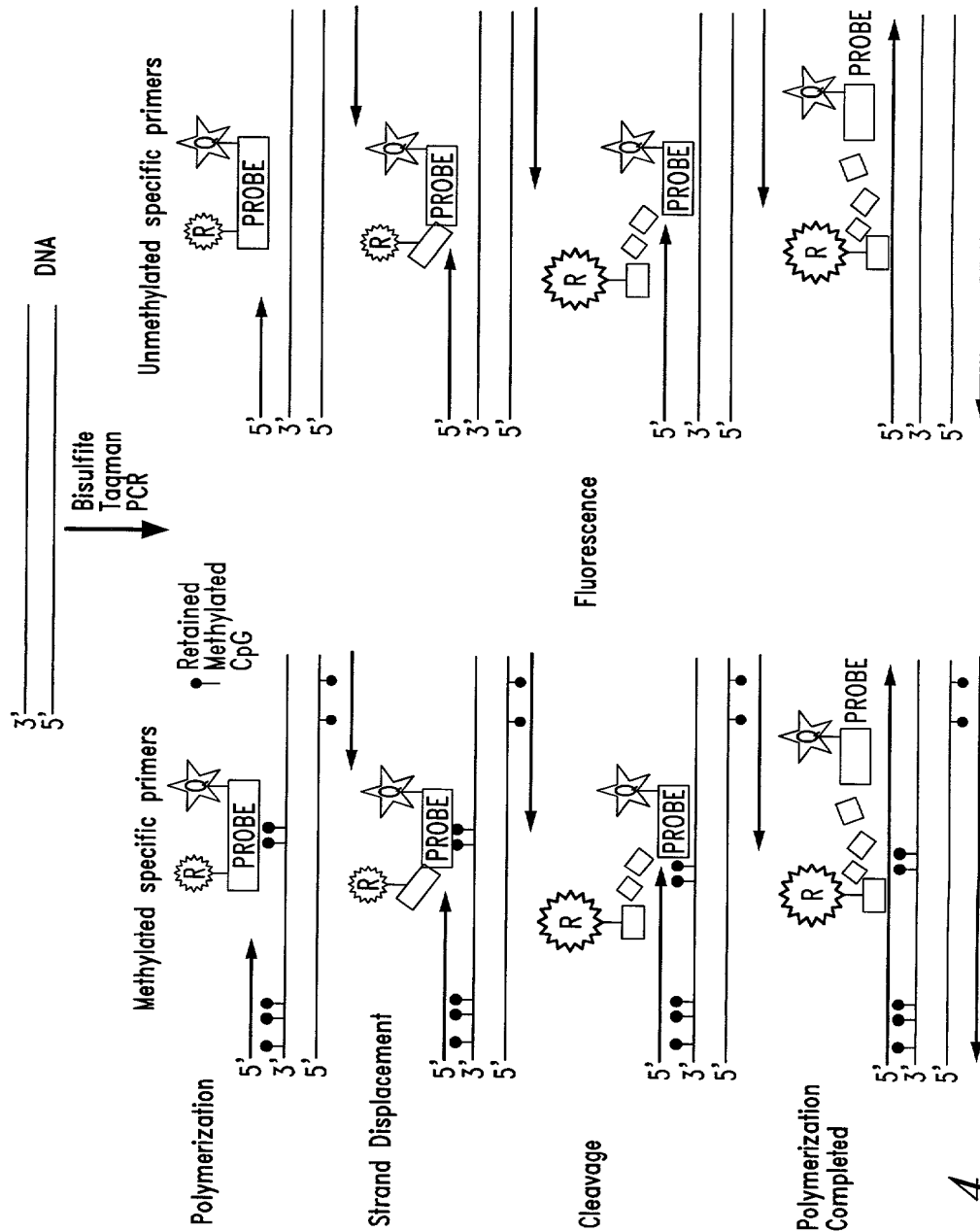
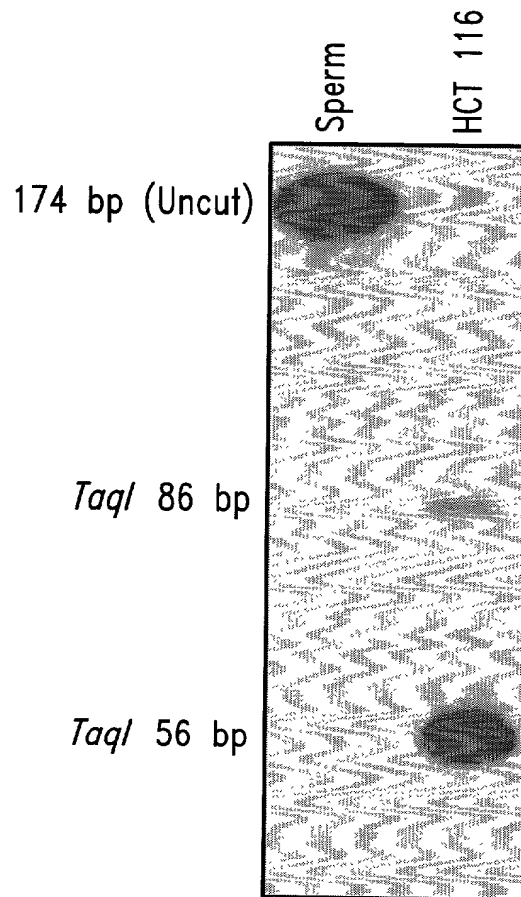


Fig. 4

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(86 bp)	0%	7%
(56 bp)	0%	88%

COBRA Gel

Fig. 5A

DNA	COBRA (% One or Two Sites Methylated)	MethylLight (Ratio of Methylated / Control)	MethylLight (Ratio of Unmethylated / Control)
<i>Bisulfite Treated</i>			
Sperm	0%	0	62
HCT116	95%	36	0
<i>Untreated</i>			
Sperm	No PCR	0	0
HCT116	No PCR	0	0

Fig. 5B

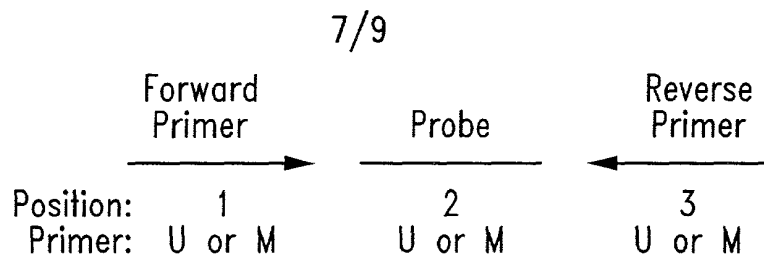


Fig. 6A

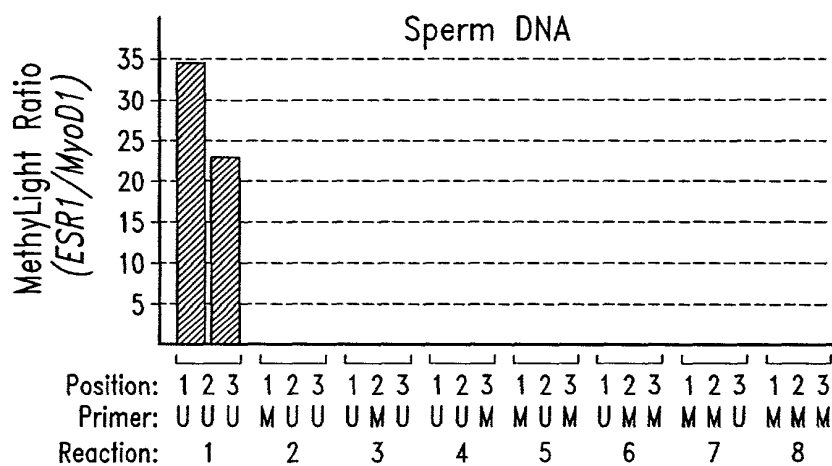


Fig. 6B

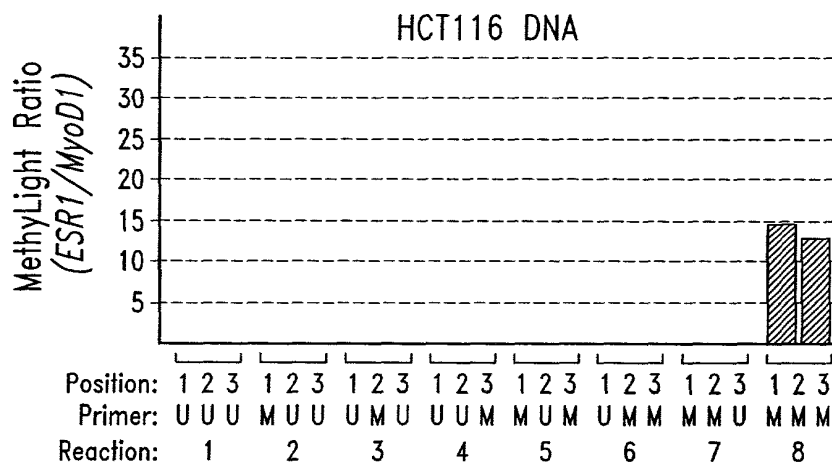


Fig. 6C

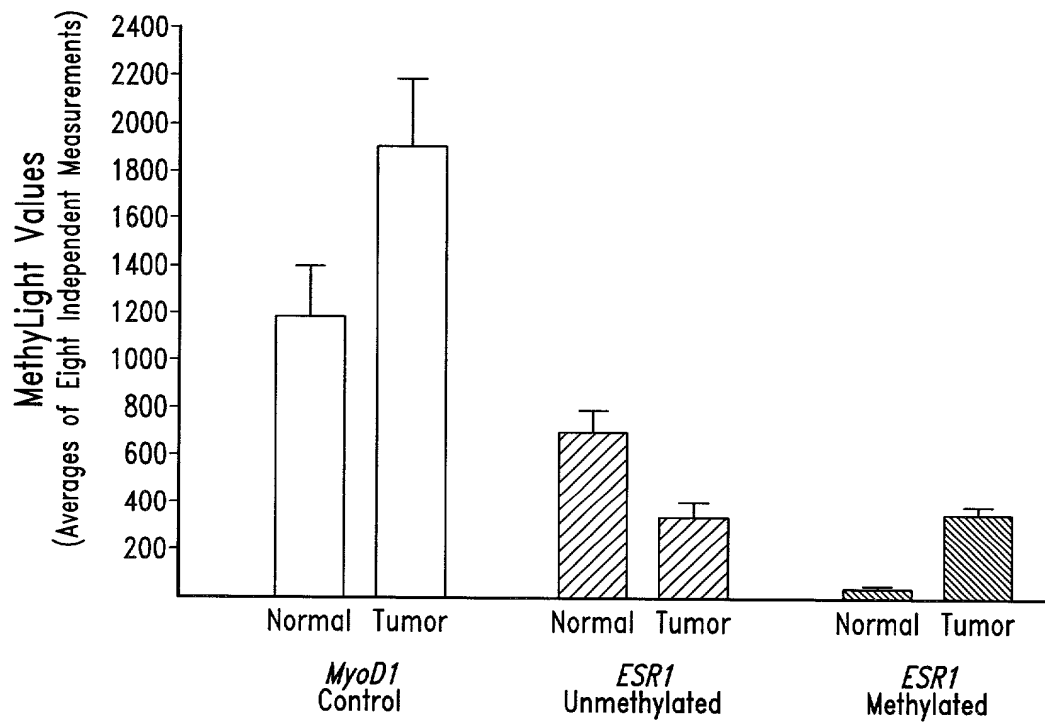
*Fig. 7*

Fig. 8

